

FIG. 2

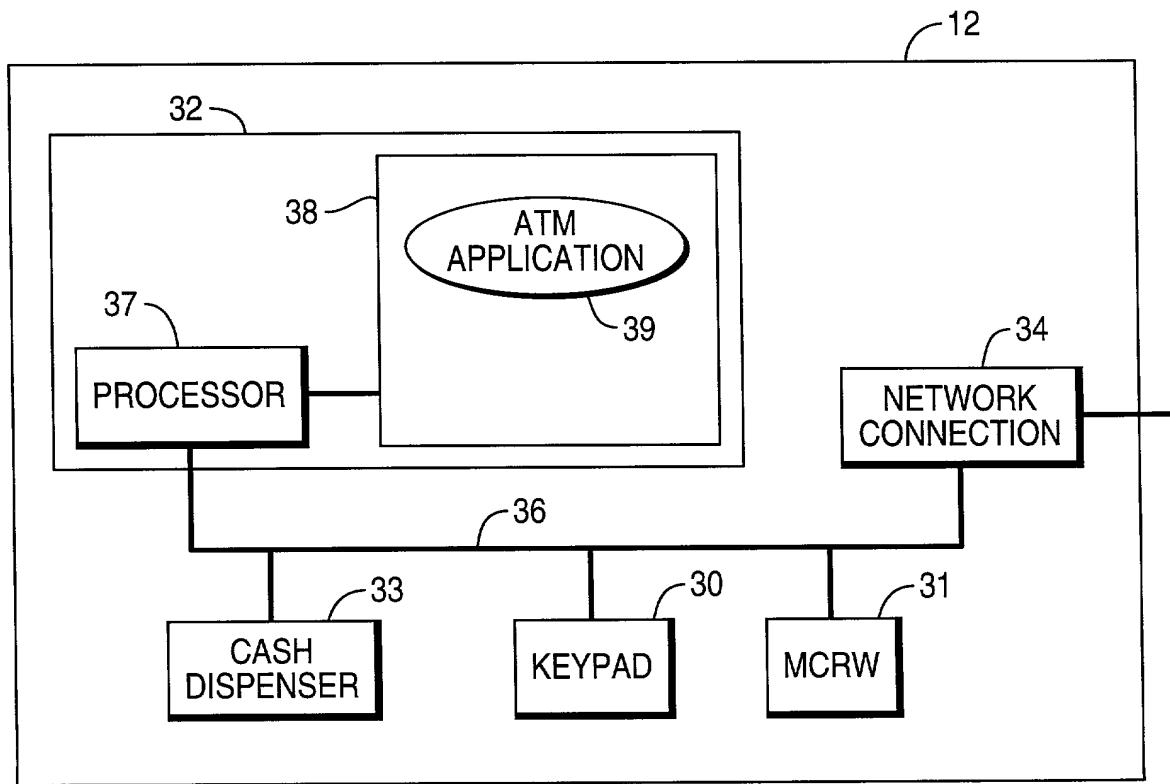


FIG. 3

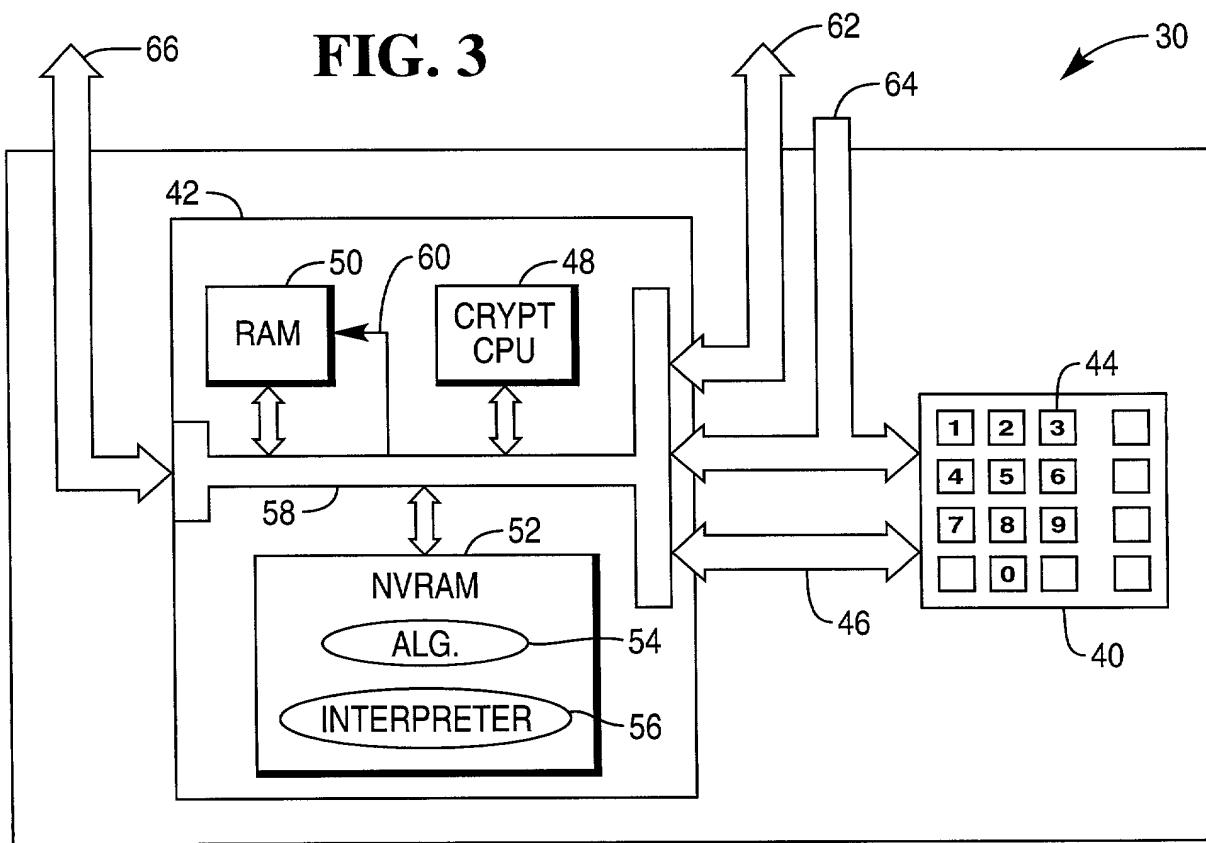


FIG. 5

<message> 152
<encrypt> 154
 <algorithm>2k3des_ecb</algorithm> 156
 <plain text> "ABCDEFGH" </plain text> 160
 <use key> "Key 1" </use key> 162
 <cipher text> result </cipher text> 166
 </encrypt>
</message>
<output message> result </output message> 168

FIG. 4

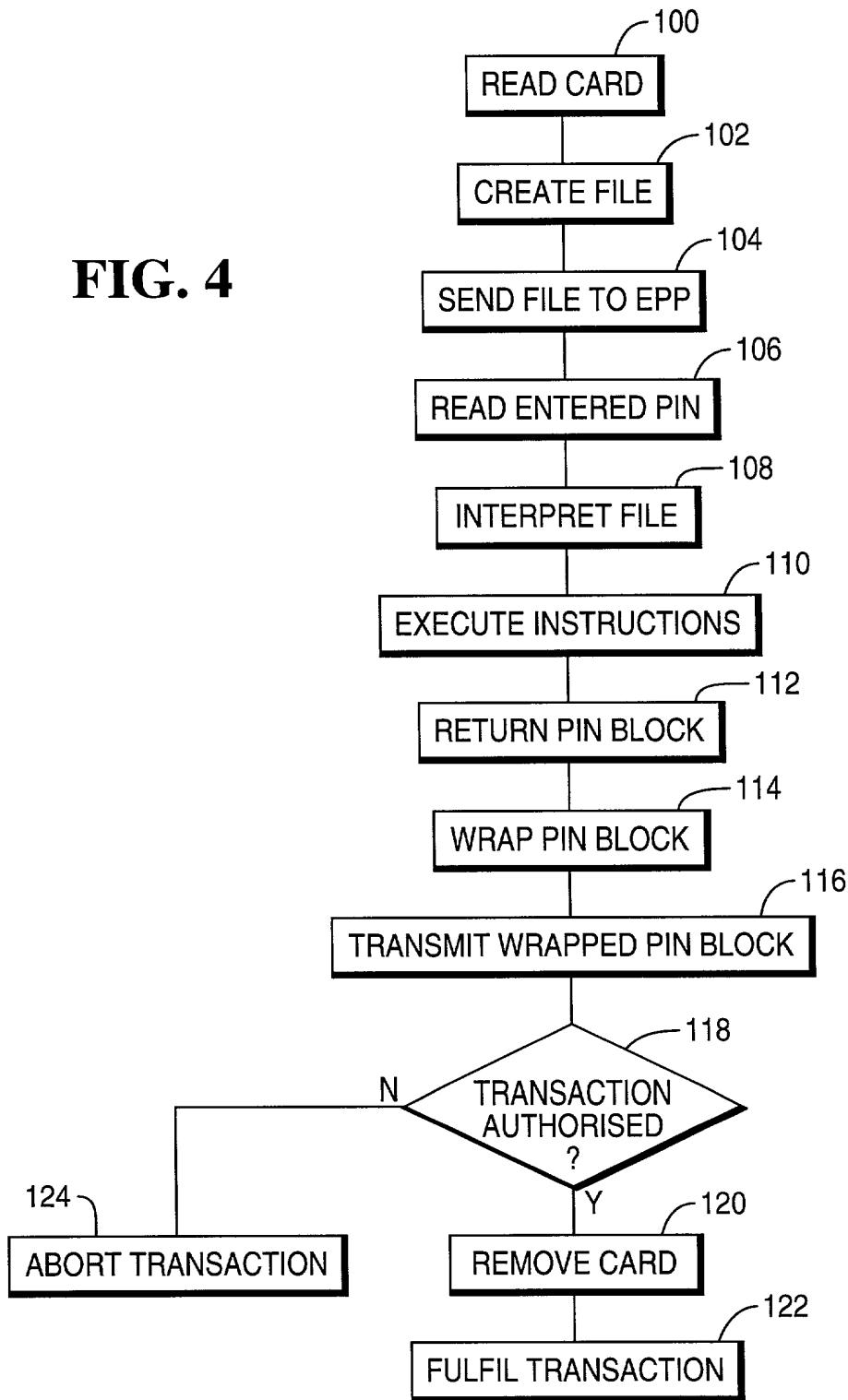


FIG. 6

<message>

180

<encrypt>

<algorithm>2k3des_ecb</algorithm>

182

<plain text> "ABCDEFGH" </plain text>

<use key> "Key 1" </use key>

<cipher text> result 1</cipher text>

</encrypt>

<encrypt>

<algorithm>2k3des_ecb</algorithm>

184

<plain text> "IJKLMNOP" </plain text>

<use key> "Key 2" </use key>

<cipher text> result2 </cipher text>

</encrypt>

<xor> result1,result2, result </xor>

186

</message>

<output message> result </output message>

188

```

<message>
  <input field1> "12345678" </input field1> 194
<decrypt>
  <algorithm>des_ecb</algorithm>
  <plain text> input field 1 </plain text>
  <use key> Key 1 </use key>
  <cipher text> result </cipher text>
</decrypt> 192
<make key>
  <xor> result, input field 1, Key 2 </xor> 196
</make key>
</message> 198

```

FIG. 7

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200 →
<message>
  <input field1> "12345678" </input field1>
<encrypt>
  <algorithm>2k3des_ecb</algorithm>
  <plain text> input field 1 </plain text>
  <use key> Key 1 </use key>
  <cipher text> result </cipher text>
</encrypt>
<make key>
  <xor> result, input field 1, Key 2 </xor>
</make key>
</message>

```

FIG. 8